



Naval Information Warfare Center Pacific

FY21 End of Year Report

National Defense Industry Association

December 7, 2021

Mr. Bill Bonwit
Executive Director

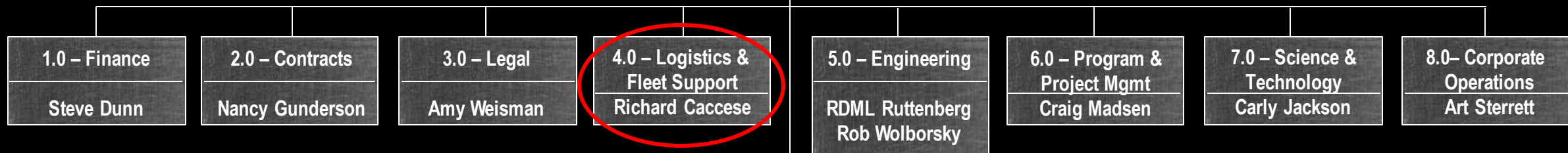
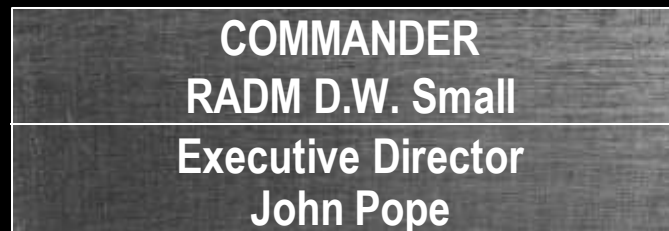
NIWC Pacific's Mission

Research, Development, Engineering, Prototyping
Test and Evaluation, Acquisition, Installation, and In-Service Engineering
C4ISR, Cyber and Space
Integrated Across All Warfighting Domains

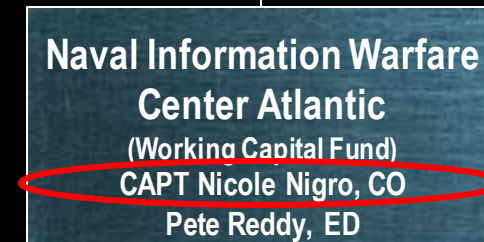
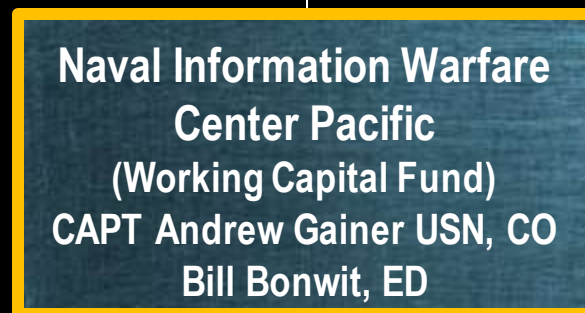
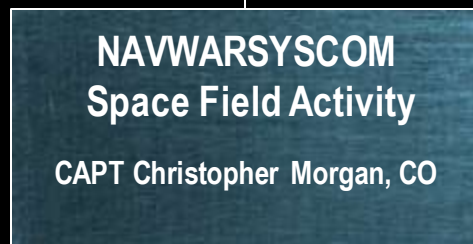
Our Strategic Locations



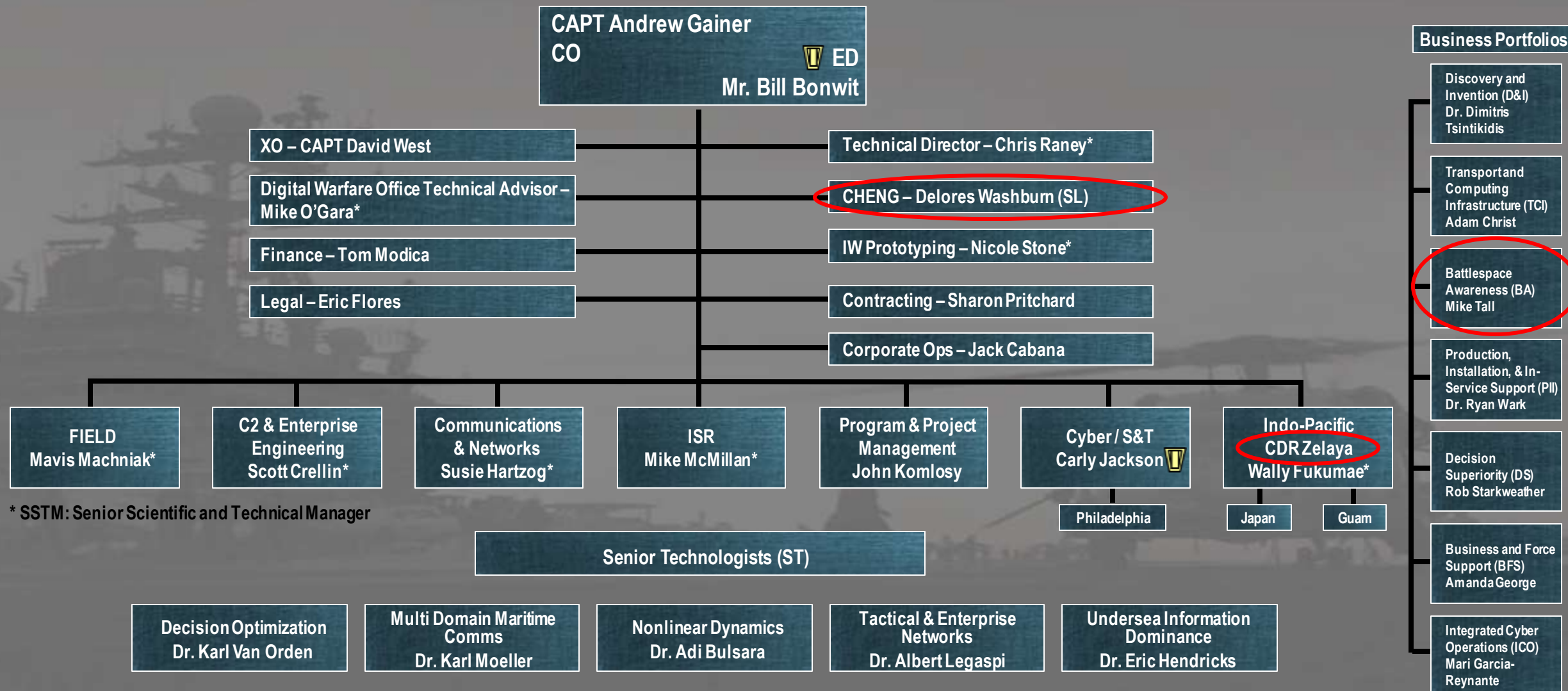
NAVWARSYSCOM Organization



Echelon III Activities



NIWC Pacific Organization



* SSTM: Senior Scientific and Technical Manager

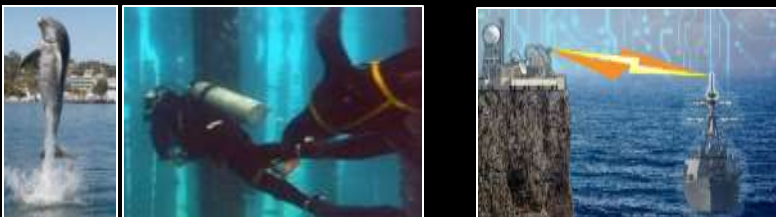
Capabilities – Across the Full Life Cycle

Today
The Navy in Operation

Installation and Support



Automated Production, Installation, & In-Service Support



Marine Mammals

Networks



3D Scanning / Additive Manufacturing

Predictive Maintenance

Tomorrow
The Navy in Construction

Engineering, Development,
Test and Evaluation



C4ISR for Unmanned Vehicles



Overmatch Software Armory
Compile to Combat

Live Virtual Constructive
Simulations



Integrated Cyber
Operations

Space Command &
Control

Future
The Navy in Planning

Science and Technology



Small Satellite Communications



Super Swarms



Graphene



Solid State Laser Atmospherics



Artificial Intelligence / Machine Learning



Quantum

2021 Significant Awards



Graham Sanborn
Rising Star Award in Engineering
AFCEA TechNet Cyber 2021



Naval Enterprise Networks Digital Transformation
Team Distinguished Award for Excellence in
Information Technology
AFCEA TechNet Cyber 2021



Jamie Lukos
ASN RDA Dr. Delores Etter
Top Scientist and Engineer
Emergent Scientist Investigator Award



Dr. Jia Chieh
ASN RDA Dr. Delores Etter Top Scientist and
Engineer Individual Award



Rowell Bacani, Vince Barton & ITCS Notarianni
NDIA A. Bryan Lasswell Award



Bruce Weidner
DoN Financial Management Award



Michael Day & Jonathan Burgard
DoN IT Excellence Award



Jei Chen
Society of Asian Scientists and Engineers
Professional Achievement Award

End of Year Snapshot

Our People Are Our Greatest Strength

CIVILIANS 5,350

Scientists & Engineers	2,581
Tech Specialists	1,145
S&E Technicians	354
Admin Professionals	1,083
General Support	156
SES / ST / SSTM / SL	31

MILITARY 221

Enlisted	159
Officers	62

TOTAL 5,571

New Professional Program:

- ✓ ~3,314 applicants for 80 positions
- ✓ Average GPA 3.45

Highly credentialed, educated workforce

- ✓ 206 PhDs
- ✓ 1,523 Masters

4,085 SCI Clearances

- ✓ 2,583 Civil Servants & Military
- ✓ 1,502 Contractors

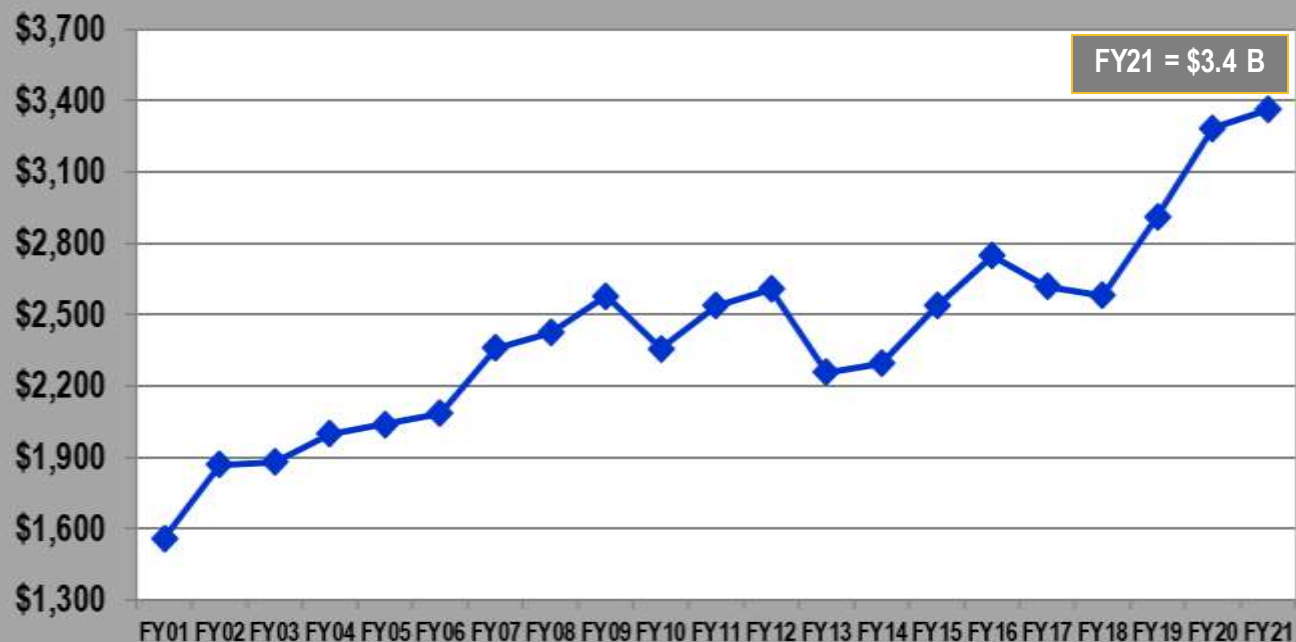


FY21 = \$3.4B
Total Obligation Authority

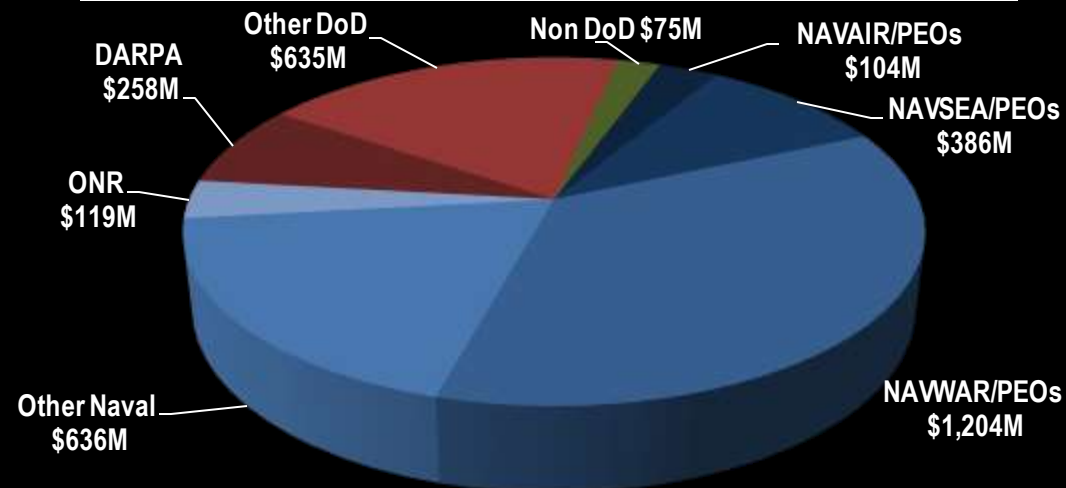
~ 40% of workforce: Active Duty, Reservists, Veterans
~ 498 Civilians & Military Directly Supporting C4ISR with the Fleet Around the World

Increasing Customer Demand

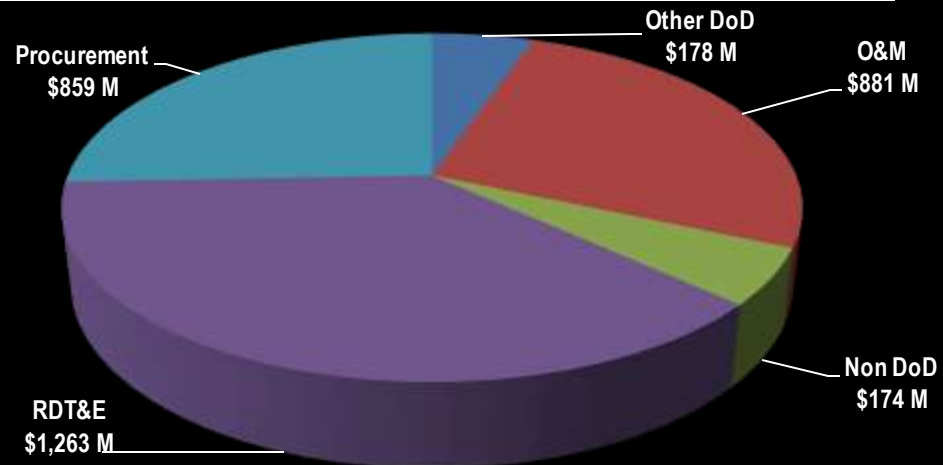
Total Obligation Authority



FY21 CUSTOMERS



FY21 FUNDS TYPE



FY21 Contracts

TOTAL CONTRACTS

Competition:	Target – 78% Achieved 79% (Dollars)
Active contracts:	449 (D, C, and grants only)
Firms awarded contracts:	817 Different firms were awarded contracts & orders (including simplified acquisitions)

**Total
Amount
Obligated
\$1.5B**

Small Business Goals

TYPE	Achieved	Target
Small Business Awards	36.77%	36.77%
HUBZone Small Businesses	1.83%	1.69%
Disadvantaged Small Business	11.77%	11.75%
8(a) Small Business	3.4%	N/A
Woman-Owned Small Business	6.62%	6.35%
Service-Disabled Vet-Owned Small Business	6.52%	3.62%

FY21 Top 25 Contractors (based on \$ New Actions)

	Contractor	Dollars Obligated
1	SCIENCE APPLICATIONS INTERNATIONAL CORPORATION	\$119,509,177
2	SERCO INC.	\$111,796,002
3	BOOZ ALLEN HAMILTON INC	\$101,443,562
4	KOAM ENGINEERING SYSTEMS, INC.	\$48,970,194
5	INNOVASYSTEMS INTERNATIONAL, LLC	\$43,840,614
6	TACTICAL ENGINEERING & ANALYSIS, INC.	\$30,916,097
7	EPOCH CONCEPTS, LLC	\$27,035,053
8	HII FLEET SUPPORT GROUP LLC	\$26,486,876
9	CENTURUM INFORMATION TECHNOLOGY, INC.	\$25,449,593
10	LEIDOS, INC.	\$25,291,286
11	GENERAL DYNAMICS INFORMATION TECHNOLOGY, INC.	\$25,012,769
12	PERATON INC.	\$21,570,917

Indicates Small Business Categorization

FY21 Top 25 Contractors (based on \$ New Actions) cont'd

	Contractor	Dollars Obligated
13	VT MILCOM INC.	\$19,655,868
14	ALUT IIQ INFORMATION MANAGEMENT , LLC.	\$19,391,621
15	RAYTHEON BBN TECHNOLOGIES CORP.	\$17,924,647
16	GEOCENT , L.L.C.	\$16,078,225
17	INFORMATION SYSTEMS SOLUTIONS, INC	\$15,955,899
18	LEIDOS, INC.	\$15,899,458
19	SCIENTIFIC RESEARCH CORPORATION	\$15,278,914
20	NORTHROP GRUMMAN SYSTEMS CORPORATION	\$15,240,681
21	FORWARD SLOPE INCORPORATED	\$14,609,793
22	NATIONAL MARINE MAMMAL FOUNDATION, INC.	\$14,052,393
23	G2 SOFTWARE SYSTEMS, INC.	\$12,705,919
24	KING TECHNOLOGIES, INC.	\$12,517,438
25	MCKEAN DEFENSE GROUP, LLC	\$12,042,973

Indicates Small Business Categorization

FY21 Top 10 Small Business Contractors (\$ New Actions)

	Contractor	Dollars Obligated
1	KOAM ENGINEERING SYSTEMS, INC.	\$48,970,194.25
2	TACTICAL ENGINEERING & ANALYSIS, INC.	\$30,916,096.65
3	EPOCH CONCEPTS, LLC	\$27,035,053.34
4	ALUTIIQ INFORMATION MANAGEMENT, LLC.	\$19,391,620.72
5	INFORMATION SYSTEMS SOLUTIONS, INC	\$15,955,898.87
6	CENTURUM INFORMATION TECHNOLOGY, INC.	\$14,952,826.71
7	FORWARD SLOPE INCORPORATED	\$14,609,793.32
8	G2 SOFTWARE SYSTEMS, INC.	\$12,705,919.03
9	KING TECHNOLOGIES, INC.	\$12,517,438.04
10	FCN, INC.	\$11,228,128.97

Intellectual Capital and Partnerships – Industry and Academia

Partnering in Education and Community Outreach



**Via our Outreach Programs 719 NIWC Pacific Personnel
have engaged 8,931 Students**



PATENTS

FY21

Disclosures

43

Patents Filed

38

Patents Issued

56

PUBLICATIONS

FY21

Journal Article

110

Conf. Papers

354

TRs/TDs

89

Technology Transfer

- ▼ Promotes innovation and creativity with NIWC Pacific technology through working relationships with industry and academia
- ▼ Important pathway to move Navy innovation from lab to market and ultimately the warfighter



- ▼ Eight Southern California companies are using NIWC Pacific technologies.

Carnegie Mellon



San Diego State University



UC San Diego



CRADA - Cooperative Research and Development Agreement

- ▼ FY21: 57 Active CRADAs
- ▼ Establish and foster R&D partnerships with industry and academia, allowing parties to share R&D resources, personnel, equipment and costs, enabling development of new capability, technology, IP

Insights for the Future

- ▼ Information Warfare is a primary warfighting domain
 - Non-kinetic fires
- ▼ Our role is to drive the R&D, engineering for IW systems
- ▼ Developing and delivering at the speed of relevance
- ▼ Increasing need for enterprise engineering
- ▼ Transforming the User Experience
 - Automation
 - Elegant Engineering
 - System “toughness”
- ▼ Continued focus on AI, ML, autonomy, decision support, ISR, networks, and cyber security
- ▼ Culture built on trust, unity of purpose, across the entire team





*The
future
of C4ISR
starts
here*

